

## WHAT IS CLAIMED IS:

1. An electronic circuit comprising:
  - an integrated circuit having a power supply terminal;
  - a transmission line type noise filter, disposed adjacent to said integrated circuit, for removing noises having a wide frequency band; and
  - a printed board having a pattern for supplying a power supply to said power supply terminal of said integrated circuit through said transmission line type noise filter.
2. An electronic circuit as claimed in claim 1, wherein said integrated circuit further has an additional power supply terminal and said electronic circuit further comprises an additional transmission line type noise filter, disposed adjacent to said integrated circuit, for removing noises having a wide frequency band.
3. An electronic circuit as claimed in claim 1, wherein said transmission line type noise filter comprises:
  - a metal fine wire made of valve-action metal, said metal fine wire having a predetermined length;
  - a sintered body formed on said metal fine wire, said sintered body being made of said valve-action metal;
  - a dielectric film formed on a surface of said sintered body;
  - a solid electrolyte layer formed on a surface of said dielectric film;
  - a conductor layer formed on a surface of said solid electrolyte layer;
  - a first and a second anode terminal connected to both ends of said metal fine wire, respectively; and
  - a cathode electrode connected to said conductor layer.
4. An electronic circuit as claimed in claim 3, wherein said sintered body is formed by press-molding power of said valve-action metal, then

sintering it in a vacuum at a predetermined temperature.

5. An electronic circuit as claimed in claim 3, wherein said sintered body is formed by winding a green sheet formed from slurry including power of said valve-action metal, around said metal fine wire as a core, then sintering it in a vacuum at a predetermined temperature.

6. An electronic circuit as claimed in claim 3, wherein said dielectric film is made of an oxidized film of said valve-action metal.

7. An electronic circuit as claimed in claim 1, wherein said transmission line type noise filter is an aluminum etched foil type.

8. An electronic circuit as claimed in claim 7, wherein said transmission line type noise filter comprises:

an aluminum etched foil;

an anode oxidized film formed on a predetermined part of said aluminum etched foil;

a conductive high molecular compound layer formed on said anode oxidized film; and

a graphite and silver paste layer formed on said conductive high molecular compound layer.